

#2

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## RAW SEQUENCE LISTING

DATE: 06/12/2001

PATENT APPLICATION: US/09/864,921

TIME: 14:54:31

Input Set : A:\Lj4752.txt

Output Set: N:\CRF3\06122001\I864921.raw

ENTERED

```

4 <110> APPLICANT: Reed, John C.
5      Pio, Frederick F.
6      Godzik, Adam
7      Stehlik, Christian
8      Damiano, Jason S.
9      Lee, Sug-Hyung
10     Oliveira, Vasco A.
11     Hayashi, Hideki
12     Pawlowski, Krzysztof
14 <120> TITLE OF INVENTION: Novel Card Domain Containing
15     Polypeptides, Encoding Nucleic Acids, and Methods of Use
18 <130> FILE REFERENCE: P-LJ 4752
C--> 20 <140> CURRENT APPLICATION NUMBER: US/09/864,921
C--> 20 <141> CURRENT FILING DATE: 2001-05-23
20 <150> PRIOR APPLICATION NUMBER: US 09/579,240
21 <151> PRIOR FILING DATE: 2000-05-24
23 <150> PRIOR APPLICATION NUMBER: US 09/686,347
24 <151> PRIOR FILING DATE: 2000-10-10
26 <150> PRIOR APPLICATION NUMBER: US 60/275,980
27 <151> PRIOR FILING DATE: 2001-03-14
29 <160> NUMBER OF SEQ ID NOS: 195
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
35 <400> SEQUENCE: 1
W--> 36 000
38 <210> SEQ ID NO: 2
40 <400> SEQUENCE: 2
W--> 41 000
43 <210> SEQ ID NO: 3
45 <400> SEQUENCE: 3
W--> 46 000
48 <210> SEQ ID NO: 4
50 <400> SEQUENCE: 4
W--> 51 000
53 <210> SEQ ID NO: 5
55 <400> SEQUENCE: 5
W--> 56 000
58 <210> SEQ ID NO: 6
60 <400> SEQUENCE: 6
W--> 61 000
63 <210> SEQ ID NO: 7
65 <400> SEQUENCE: 7
W--> 66 000
68 <210> SEQ ID NO: 8
70 <400> SEQUENCE: 8
W--> 71 000
73 <210> SEQ ID NO: 9

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Input Set : A:\Lj4752.txt

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75 <400> SEQUENCE: 9
W--> 76 000
78 <210> SEQ ID NO: 10
80 <400> SEQUENCE: 10
W--> 81 000
83 <210> SEQ ID NO: 11
84 <211> LENGTH: 1038
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapien
88 <220> FEATURE:
89 <221> NAME/KEY: CDS
90 <222> LOCATION: (1)...(930)
92 <400> SEQUENCE: 11
93 atg gct acc gag agt act ccc tca gag atc ata gaa aga gaa aga aaa 48
94 Met Ala Thr Glu Ser Thr Pro Ser Glu Ile Ile Glu Arg Glu Arg Lys
95 1 5 10 15
97 aag ttg ctt gaa atc ctt caa cat gat cct gat tct atc tta gac acg 96
98 Lys Leu Leu Glu Ile Leu Gln His Asp Pro Asp Ser Ile Leu Asp Thr
99 20 25 30
101 tta act tct cgg agg ctg att tct gag gaa gag tat gag act ctg gag 144
102 Leu Thr Ser Arg Arg Leu Ile Ser Glu Glu Glu Tyr Glu Thr Leu Glu
103 35 40 45
105 aat gtt aca gat ctc ctg aag aaa agt cgg aag ctg tta att ttg gta 192
106 Asn Val Thr Asp Leu Leu Lys Lys Ser Arg Lys Leu Leu Ile Leu Val
107 50 55 60
109 cag aaa aag gga gag gcg acc tgt cag cat ttt ctc aag tgt tta ttt 240
110 Gln Lys Lys Gly Glu Ala Thr Cys Gln His Phe Leu Lys Cys Leu Phe
111 65 70 75 80
113 agt act ttt cca cag tca gct gcc att tgc gcc tta agg cat gaa gtt 288
114 Ser Thr Phe Pro Gln Ser Ala Ala Ile Cys Gly Leu Arg His Glu Val
115 85 90 95
117 tta aaa cat gag aat aca gta cct cct caa tct atg ggg gca agc agt 336
118 Leu Lys His Glu Asn Thr Val Pro Pro Gln Ser Met Gly Ala Ser Ser
119 100 105 110
121 aat tca gaa gat gct ttt tct cct gga ata aaa cag cct gaa gcc cct 384
122 Asn Ser Glu Asp Ala Phe Ser Pro Gly Ile Lys Gln Pro Glu Ala Pro
123 115 120 125
125 gag atc aca gtg ttc ttc agt gag aag gaa cac ttg gat ttg gaa acc 432
126 Glu Ile Thr Val Phe Phe Ser Glu Lys Glu His Leu Asp Leu Glu Thr
127 130 135 140
129 tct gag ttt ttc agg gac aag aaa act agt tat agg gaa aca gct ttg 480
130 Ser Glu Phe Phe Arg Asp Lys Lys Thr Ser Tyr Arg Glu Thr Ala Leu
131 145 150 155 160
133 tct gcc agg aag aat gag aag gaa tat gac aca cca gaa gtc aca tta 528
134 Ser Ala Arg Lys Asn Glu Lys Glu Tyr Asp Thr Pro Glu Val Thr Leu
135 165 170 175
137 tca tat tca gtt gag aaa gtt gga tgt gaa gtt cca gca act att aca 576
138 Ser Tyr Ser Val Glu Lys Val Gly Cys Glu Val Pro Ala Thr Ile Thr
139 180 185 190

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```

141 tat ata aaa gat gga cag aga tat gag gag cta gat gat tct tta tac 624
142 Tyr Ile Lys Asp Gly Gln Arg Tyr Glu Glu Leu Asp Asp Ser Leu Tyr
143      195      200      205
145 tta gga aaa gag gaa tat cta gga tct gtt gac acc cct gaa gat gca 672
146 Leu Gly Lys Glu Glu Tyr Leu Gly Ser Val Asp Thr Pro Glu Asp Ala
147      210      215      220
149 gaa gcc act gtg gaa gag gag gtt tat gat gac cca gag cac gtt gga 720
150 Glu Ala Thr Val Glu Glu Glu Val Tyr Asp Asp Pro Glu His Val Gly
151 225      230      235      240
153 tat gat ggt gaa gag gac ttc gag aat tca gaa acc aca gag ttc tct 768
154 Tyr Asp Gly Glu Glu Asp Phe Glu Asn Ser Glu Thr Thr Glu Phe Ser
155      245      250      255
157 ggt gaa gaa cca agt tat gag gga tca gaa acc agc ctt tca ttg gag 816
158 Gly Glu Glu Pro Ser Tyr Glu Gly Ser Glu Thr Ser Leu Ser Leu Glu
159      260      265      270
161 gag gaa cag gag aaa agt ata gaa ggc tgg tct cga act cat ggg ctt 864
162 Glu Glu Gln Glu Lys Ser Ile Glu Gly Trp Ser Arg Thr His Gly Leu
163      275      280      285
165 aag cga tcc tcc cac gtt ggc ctc cca aag tgc tgg gat tac agg cgt 912
166 Lys Arg Ser Ser His Val Gly Leu Pro Lys Cys Trp Asp Tyr Arg Arg
167      290      295      300
169 gag cca ccc tgc ctg gcc tgaaaaattct gcctcaaaca tctcaaacat 960
170 Glu Pro Pro Cys Leu Ala
171 305      310
173 ccatttatat ttgtacaag aaagtaaata aaatttttct ttttaacatt aaaaaaaaaa 1020
174 aaaaaaaaaa aatctaga 1038
176 <210> SEQ ID NO: 12
177 <211> LENGTH: 310
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapien
181 <400> SEQUENCE: 12
182 Met Ala Thr Glu Ser Thr Pro Ser Glu Ile Ile Glu Arg Glu Arg Lys
183 1      5      10      15
184 Lys Leu Leu Glu Ile Leu Gln His Asp Pro Asp Ser Ile Leu Asp Thr
185      20      25      30
186 Leu Thr Ser Arg Arg Leu Ile Ser Glu Glu Glu Tyr Glu Thr Leu Glu
187      35      40      45
188 Asn Val Thr Asp Leu Leu Lys Lys Ser Arg Lys Leu Leu Ile Leu Val
189      50      55      60
190 Gln Lys Lys Gly Glu Ala Thr Cys Gln His Phe Leu Lys Cys Leu Phe
191 65      70      75      80
192 Ser Thr Phe Pro Gln Ser Ala Ala Ile Cys Gly Leu Arg His Glu Val
193      85      90      95
194 Leu Lys His Glu Asn Thr Val Pro Pro Gln Ser Met Gly Ala Ser Ser
195      100      105      110
196 Asn Ser Glu Asp Ala Phe Ser Pro Gly Ile Lys Gln Pro Glu Ala Pro
197      115      120      125
198 Glu Ile Thr Val Phe Phe Ser Glu Lys Glu His Leu Asp Leu Glu Thr
199      130      135      140

```

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```

200 Ser Glu Phe Phe Arg Asp Lys Lys Thr Ser Tyr Arg Glu Thr Ala Leu
201 145 150 155 160
202 Ser Ala Arg Lys Asn Glu Lys Glu Tyr Asp Thr Pro Glu Val Thr Leu
203 165 170 175
204 Ser Tyr Ser Val Glu Lys Val Gly Cys Glu Val Pro Ala Thr Ile Thr
205 180 185 190
206 Tyr Ile Lys Asp Gly Gln Arg Tyr Glu Glu Leu Asp Asp Ser Leu Tyr
207 195 200 205
208 Leu Gly Lys Glu Glu Tyr Leu Gly Ser Val Asp Thr Pro Glu Asp Ala
209 210 215 220
210 Glu Ala Thr Val Glu Glu Glu Val Tyr Asp Asp Pro Glu His Val Gly
211 225 230 235 240
212 Tyr Asp Gly Glu Glu Asp Phe Glu Asn Ser Glu Thr Thr Glu Phe Ser
213 245 250 255
214 Gly Glu Glu Pro Ser Tyr Glu Gly Ser Glu Thr Ser Leu Ser Leu Glu
215 260 265 270
216 Glu Glu Gln Glu Lys Ser Ile Glu Gly Trp Ser Arg Thr His Gly Leu
217 275 280 285
218 Lys Arg Ser Ser His Val Gly Leu Pro Lys Cys Trp Asp Tyr Arg Arg
219 290 295 300
220 Glu Pro Pro Cys Leu Ala
221 305 310
224 <210> SEQ ID NO: 13
226 <400> SEQUENCE: 13
W--> 227 000
229 <210> SEQ ID NO: 14
231 <400> SEQUENCE: 14
W--> 232 000
234 <210> SEQ ID NO: 15
236 <400> SEQUENCE: 15
W--> 237 000
239 <210> SEQ ID NO: 16
241 <400> SEQUENCE: 16
W--> 242 000
244 <210> SEQ ID NO: 17
246 <400> SEQUENCE: 17
W--> 247 000
249 <210> SEQ ID NO: 18
251 <400> SEQUENCE: 18
W--> 252 000
254 <210> SEQ ID NO: 19
256 <400> SEQUENCE: 19
W--> 257 000
259 <210> SEQ ID NO: 20
261 <400> SEQUENCE: 20
W--> 262 000
264 <210> SEQ ID NO: 21
266 <400> SEQUENCE: 21
W--> 267 000

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/864,921

DATE: 06/12/2001

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Input Set : A:\Lj4752.txt

Output Set: N:\CRF3\06122001\I864921.raw

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269 <210> SEQ ID NO: 22
271 <400> SEQUENCE: 22
W--> 272 000
274 <210> SEQ ID NO: 23
276 <400> SEQUENCE: 23
W--> 277 000
279 <210> SEQ ID NO: 24
281 <400> SEQUENCE: 24
W--> 282 000
284 <210> SEQ ID NO: 25
286 <400> SEQUENCE: 25
W--> 287 000
289 <210> SEQ ID NO: 26
291 <400> SEQUENCE: 26
W--> 292 000
294 <210> SEQ ID NO: 27
296 <400> SEQUENCE: 27
W--> 297 000
299 <210> SEQ ID NO: 28
301 <400> SEQUENCE: 28
W--> 302 000
304 <210> SEQ ID NO: 29
306 <400> SEQUENCE: 29
W--> 307 000
309 <210> SEQ ID NO: 30
311 <400> SEQUENCE: 30
W--> 312 000
314 <210> SEQ ID NO: 31
316 <400> SEQUENCE: 31
W--> 317 000
319 <210> SEQ ID NO: 32
321 <400> SEQUENCE: 32
W--> 322 000
324 <210> SEQ ID NO: 33
326 <400> SEQUENCE: 33
W--> 327 000
329 <210> SEQ ID NO: 34
331 <400> SEQUENCE: 34
W--> 332 000
334 <210> SEQ ID NO: 35
336 <400> SEQUENCE: 35
W--> 337 000
339 <210> SEQ ID NO: 36
341 <400> SEQUENCE: 36
W--> 342 000
344 <210> SEQ ID NO: 37
346 <400> SEQUENCE: 37
W--> 347 000
349 <210> SEQ ID NO: 38
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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/864,921

DATE: 06/12/2001

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Input Set : A:\Lj4752.txt

Output Set: N:\CRF3\06122001\I864921.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No  
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:36 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (1) SEQUENCE:  
L:41 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (2) SEQUENCE:  
L:46 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (3) SEQUENCE:  
L:51 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (4) SEQUENCE:  
L:56 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (5) SEQUENCE:  
L:61 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (6) SEQUENCE:  
L:66 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (7) SEQUENCE:  
L:71 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (8) SEQUENCE:  
L:76 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE:  
L:81 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE:  
L:227 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (13) SEQUENCE:  
L:232 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (14) SEQUENCE:  
L:237 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (15) SEQUENCE:  
L:242 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (16) SEQUENCE:  
L:247 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (17) SEQUENCE:  
L:252 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (18) SEQUENCE:  
L:257 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (19) SEQUENCE:  
L:262 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (20) SEQUENCE:  
L:267 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (21) SEQUENCE:  
L:272 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (22) SEQUENCE:  
L:277 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (23) SEQUENCE:  
L:282 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (24) SEQUENCE:  
L:287 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (25) SEQUENCE:  
L:292 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (26) SEQUENCE:  
L:297 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (27) SEQUENCE:  
L:302 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (28) SEQUENCE:  
L:307 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (29) SEQUENCE:  
L:312 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (30) SEQUENCE:  
L:317 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (31) SEQUENCE:  
L:322 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (32) SEQUENCE:  
L:327 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (33) SEQUENCE:  
L:332 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (34) SEQUENCE:  
L:337 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (35) SEQUENCE:  
L:342 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (36) SEQUENCE:  
L:347 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (37) SEQUENCE:  
L:352 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (38) SEQUENCE:  
L:357 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (39) SEQUENCE:  
L:362 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (40) SEQUENCE:  
L:367 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (41) SEQUENCE:  
L:372 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (42) SEQUENCE:  
L:377 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (43) SEQUENCE:  
L:382 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (44) SEQUENCE:  
L:387 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (45) SEQUENCE:  
L:392 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (46) SEQUENCE:  
L:397 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (47) SEQUENCE:  
L:402 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (48) SEQUENCE:

VERIFICATION SUMMARY

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Input Set : A:\Lj4752.txt

Output Set: N:\CRF3\06122001\I864921.raw

L:407 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (49) SEQUENCE:  
L:412 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (50) SEQUENCE:  
L:417 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (51) SEQUENCE:  
L:422 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (52) SEQUENCE: